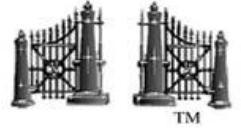




Agenda for 11 June 2014 Picatinny Arsenal Restoration Advisory Board

US Army Garrison



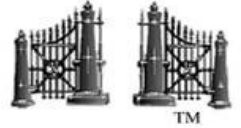
Picatinny Arsenal

- **Attendance, Introductions & Correspondence**
- **Old Business**
- **TAPP Contract Financial Report and Path Ahead**
- **26 Site Proposed Plan and Public Meeting Update**
- **Former Burning Grounds Update**
- **48 Site Feasibility Study and Proposed Plans**
- **Update in a Minute**
- **Synopsis and Next Meeting**



TAPP Financial Report Update

US Army Garrison



Picatinny Arsenal

Contract awarded September 2011 with 2 Option Years via Purchase Order;
1st and 2nd option years were exercised

Picatinny Contract Option Year 2 to SEP 14:

Purchase Order Value \$ **24,052.84**
Spent \$ 9,083.77
 \$14,969.07

Purchase Order terminates on Sept 19th, 2014

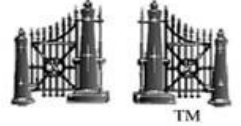
This option year of the contract is also the last year of the Army's 2nd Waiver Request for a TAPP grant.

Method of selecting what TAPP reviews: Doodle polls with a minimum of two votes in favor needed for a review. Continue to send executive summaries, report or reports summaries prior to the Doodle Vote

Recent reviews: Area C LTM Report Round H; PICA 205 2013 Annual GW Report, PICA 079 Annual Report, PICA 076 Annual Report, 3 Site FS, Area E Annual Report, 300 Marsh Letter Report, Post Farm Annual Report.



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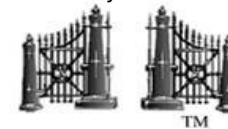
Picatinny Arsenal

Update-in-a-Minute
Installation Restoration Program (IRP)
&
Military Munitions Response Program (MMRP)
11 June Presentation to the
Picatinny Arsenal
Restoration Advisory Board



CERCLA Status of ARCADIS IRP PBC Sites

US Army Garrison



Picatinny Arsenal

	RI	FS	PP	ROD	RD	RA	RAR	LTM/O	Comments
PICA 01 (26 Site Group)	Completed	Complete	Complete	Complete	Not Required - NFA Remedy				NFA with Monitoring of Land Use
PICA 96 (26 Site Group)	Completed	Completed	Complete	Draft	Not Required - NFA Remedy				NFA with Monitoring of Land Use
PICA 11 (45 Site Group)	Completed	Almost Complete	Draft Complete	Jul-14	Not Required - NFA Remedy				NFA with Monitoring of Land Use
PICA 11 (3 Site Group)	Completed	Almost Complete	Draft Complete	Jul-14	Follow on PBC				Soil Removal Action at 3 Sites
PICA 08 (Group 3 Sites)	Completed	Complete	Complete	Complete	Complete	Complete	Complete	On Going	Concentrations nearly at Clean Up Goals
PICA 13 (Building 91 GW)	Completed	Complete	Complete	Complete	Complete	Complete	Complete	On Going	Concentrations below clean up goals
PICA 20 (Group of 13 Sites)	Completed	Complete	Complete	Complete	Complete	Complete	Complete	On Going	LUCs
PICA 57 (Lakes Group)	Completed	Draft	Jul-14	Follow on PBC	Follow on PBC				Goal to achieve NFA/LUC ROD before December 2014
PICA 57 (Non Lakes Group)	Completed	Complete	Follow on PBC		Not Required - NFA Remedy				Goal to achieve NFA/LUC ROD before December 2014
PICA 65 (Post Farm Landfill)	Completed	Complete	Complete	Complete	Complete	Complete	Complete	On Going	Concentrations below clean up goals
PICA 66 (Site 20/24)	Completed	Completed						On Going	LUCs
PICA 67 (Sanitary Landfill)	Completed	Completed	Complete	Complete	Complete	Complete	Complete	On Going	LUCs
PICA 72 (Former DRMO)	Completed	Completed	Complete	Complete	Complete	Complete	Complete	On Going	LUCs
PICA 76 (Area D GW)	Completed	Completed			Complete	Complete	Complete	On Going	MNA occurring faster than originally predicted
PICA 77 (Area E GW)	Completed	Completed	Complete	Complete	Complete	Complete	Complete	On Going	MNA occurring faster than originally predicted
PICA 79 (Group 1 Sites)	Completed	Completed	Complete	Complete	Complete	Complete	Complete	On Going	LTM of groundwater and sediment ongoing
PICA 93 (Waste Piles)	Completed	Completed	Complete	Complete	Complete	Complete	Complete	On Going	LUCs
PICA 102 (Waste Dumps)	Completed	Completed	Complete	Complete	Complete	Complete	Complete	On Going	LUCs
PICA 193 (Green Pond Brook)	Completed	Completed				Complete	Complete	On Going	LTM of sediment and surface water
PICA 204 (Mid Valley GW)	Completed	Complete	Complete	Complete	Complete	Complete	Complete	On Going	1.5 years (of 23 complete)
PICA 205 (Area B GW)	Completed	Completed	Complete	Complete	Complete	Complete	Complete	On Going	Concentrations nearly at Clean Up Goals



CERLCA Status of Non-ARCADIS and MMRP Sites

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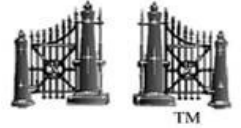
Picatinny Arsenal

									
	RI	FS	PP	ROD	RD	RA	RAR	LTM/O	Comments
PICA 111 Sites	Complete	Complete	Follow on PBC		Potentially not required as it is an NFA site				NFA with Monitoring of Land Use
Former Skeet Range (CC-057)	Complete	Follow on PBC							Action required, will be made part of MMRP site
600 Hill GW (PICA 058)	Complete	Complete	Follow on PBC						Action required, will be made part of MMRP site
Area C, Southern Boundary GW	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Ongoing	Monitoring of Groundwater
PICA-003-R-01, 1926 Explosion Radius	Almost Complete	Follow on PBC			Follow on PBC				
PICA-003-R-02, Fuze Area	Almost Complete	Follow on PBC			Follow on PBC				
PICA-006-R-01, 1926 Explosion Radius – Off-Post	Almost Complete	Follow on PBC			Follow on PBC				
PICA-006-R-02, Former Operational Areas Mortar Range	Almost Complete	Follow on PBC			Follow on PBC				This FS will include the Former Skeet Range
PICA-008-R-01, Lakes MRS	Almost Complete	Follow on PBC			Follow on PBC				
PICA-010-R-01, Shell Burial Grounds	Almost Complete	Follow on PBC			Follow on PBC				
PICA-012-R-01, Lake Denmark – Off-Post	Almost Complete	Follow on PBC			Follow on PBC				NFA possibility
PICA-013-R-01, Inactive Munitions Waste Pit	Almost Complete	Follow on PBC			Follow on PBC				This FS will include the PICA 058 Groundwater Plume
PICA-014-R-01, Inactive Munitions Waste Pit – Off-Post	Almost Complete	Follow on PBC			Follow on PBC				NFA possibility



Status of Installation Restoration Program Investigations

US Army Garrison



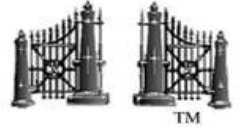
Picatinny Arsenal

- **Installation Restoration Program Remedial Investigations considered complete**
- **Marsh Report Site Investigation Report is considered complete although new area “East Side of Green Pond Brook” will need to be investigated**



Status of IRP Feasibility Studies (FSs)

US Army Garrison



Picatinny Arsenal

- **600 Hill Groundwater FS approved**

Lakes FS: Document to be resubmitted based on sampling results and as discussed at FEB meeting

48 Site FS: All sites with acceptable risk consistent with No Action; only two alternatives - No Action and No Action with Monitoring; NJDEP provides comments. Briefing paper by TAPP. Tracked-changed version approved by EPA

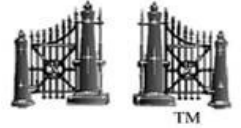
Non-Lakes Sites: all sites with acceptable risk submitted consistent with No Action. Tracked-changed version approved by EPA

- **3 Site FS: Dispute resolved and new FS submitted and approved by the EPA and comments received from NJDEP**



Status of Proposed Plans

US Army Garrison



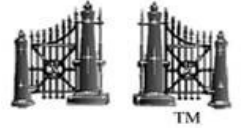
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- **PICA 111 NFA Proposed Plan: Submitted in June 2013, new 2014 contractor to make modifications**
- **26 Site NFA Proposed Plan: Submitted in June and public meeting tonight**
- **3 Site Proposed Plan submitted and commented on by EPA and DEP**



Status of Records of Decision

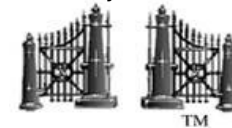
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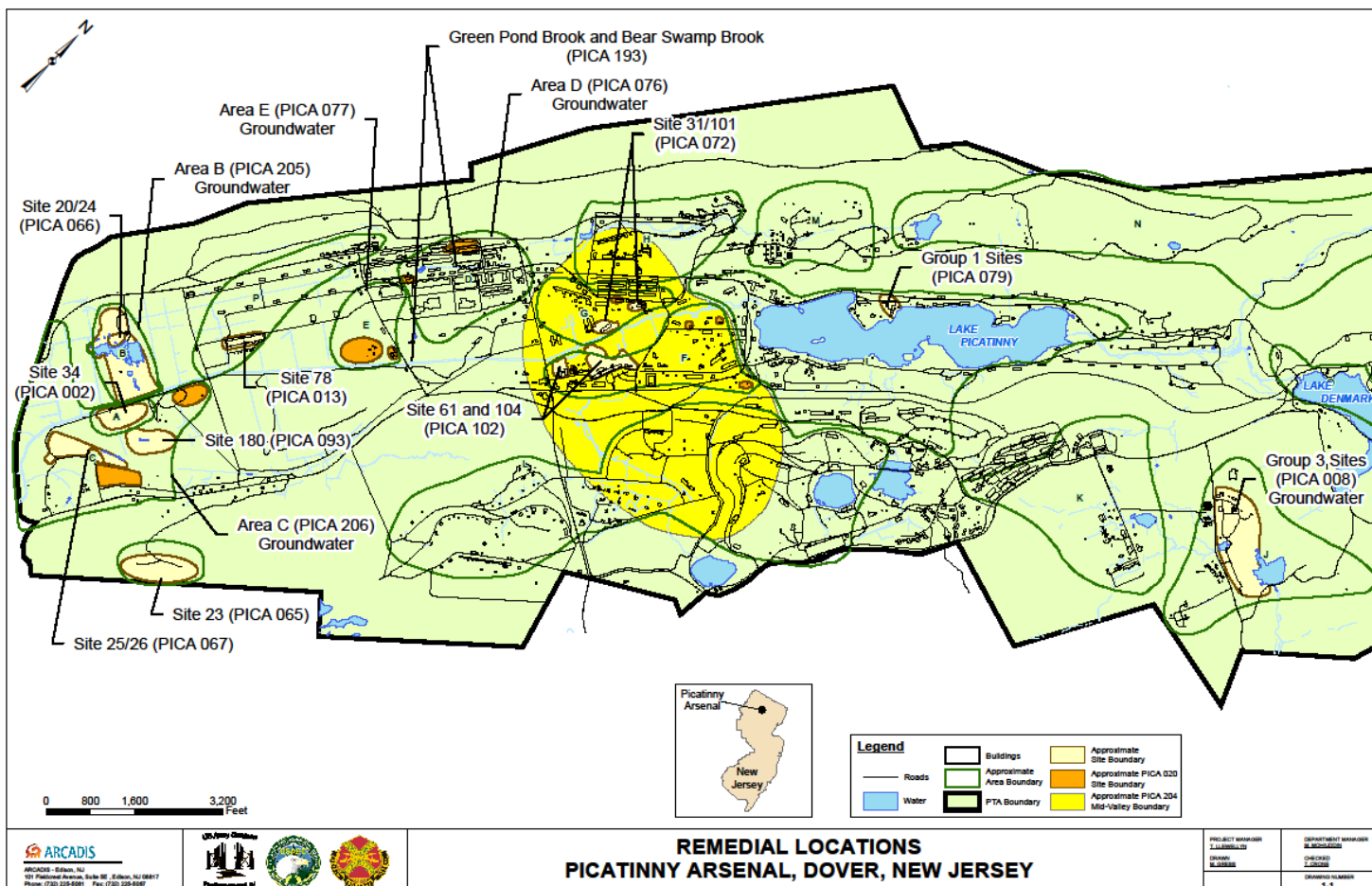
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- **Signed RODs, Implemented:**

- Site 20/24 considered complete except LUC monitoring
- Post Farm: Action is considered complete except for monitoring
- Green Pond/ Bear Swamp Brook: Only monitoring remains
- Area D Groundwater: Permeable Reactive Barrier monitoring continues
- Site 25/26: ICs and vegetative cover considered complete
- Site 180 ROD: Complete except LTM
- Area E Groundwater: Consider complete except for the MNA monitoring
- 13 Sites Institutional ROD PICA 20: LUCs ongoing
- Site 61/104: considered complete
- Area B Groundwater: Considered *Remedy* in Place
- Site 31/101 DRMO Yard: Complete except for LUC
- Southern Boundary/Area C: LTM continues
- Group 1 GW and soils: Considered complete except monitoring
- Group 3 GW and surface water: Considered complete except monitoring
- Site 78, PICA 13 GW and SW: Considered complete except monitoring
- MidValley Groundwater: Remediation ongoing
- **25 Sites NFA Record of Decision being public noticed**
- **Former Burning Grounds (PICA 02): Explanation of Differences to be public noticed**



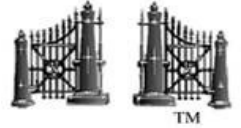
Sites with Signed Records of Decision





Remedial Action Reports & Long Term Monitoring Reports

US Army Garrison



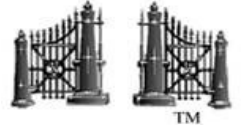
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- **MidValley Groundwater Interim Remedial Action Report**
- **Post Farm**
- **Site 180**
- **Site 25/26**
- **Area B GW**
- **Area E GW**
- **Area D GW**
- **Green Pond Brook/Bear Swamp Brook**
- **Site 104/61 Report**
- **Area C GW**
- **Group 1 GW**
- **Group 3 GW**
- **PICA 13/Site 78 GW**
- **MidValley Groundwater**
- **Land Use Control Annual Certification**



Update on the MMRP

US Army Garrison



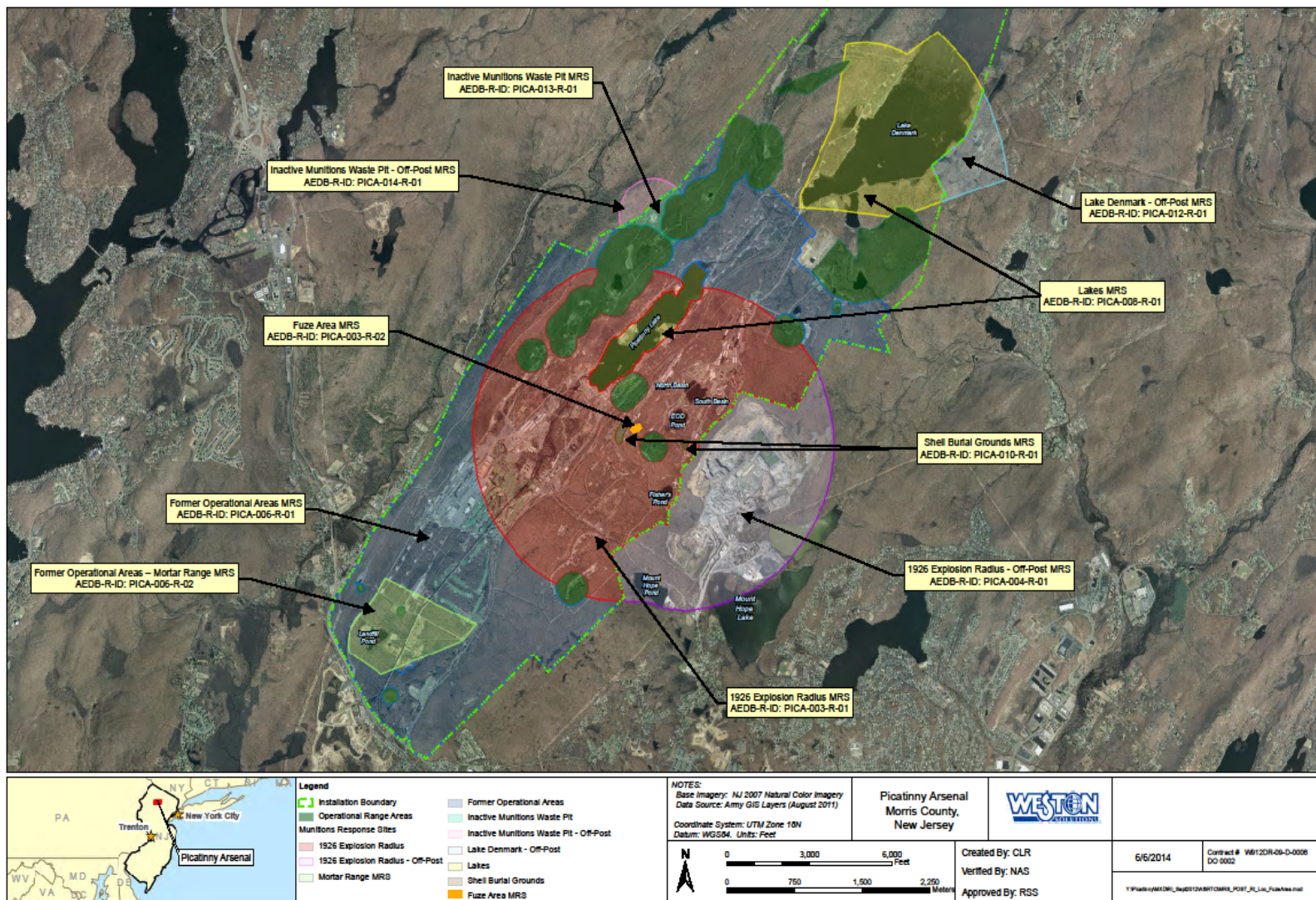
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Status of the MMRP Remedial Investigation

- RI Workplan Approved in April 2012
- Field Work complete 2012 – 2013
- Report submitted: December 2013
- Comments Provided: February 2014
- Responses to Comments process: April 2014
- NJDEP approval & few EPA comments: May 2014
- Re-submittal of RI and approval: by the next RAB

Military Munitions Response Program

Munitions Response Sites



Military Munitions Response Program

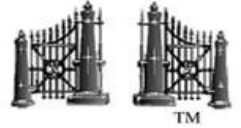
Investigation Conclusions

Munitions Response Site (MRS)	MEC Assessment	MC Assessment	MRSP	Feasibility Study
1926 Explosion Radius	Exposure pathways complete.	Exposure pathways incomplete.	3	Address explosive hazards.
Fuze Area**	Exposure pathways complete.	Exposure pathways incomplete.	3	Address explosive hazards.
1926 Explosion Radius - Off-Post	Exposure pathways complete.	Exposure pathways incomplete.	4	Address explosive hazards.
Shell Burial Grounds	Exposure pathways complete.	Exposure pathways incomplete.	5	Address explosive hazards.
Green Pond	Combined with 1926 Explosion Radius			
Former Operational Areas	Exposure pathways complete.	Exposure pathways incomplete.	3	Address explosive hazards.
Mortar Range**	Exposure pathways complete.	Exposure pathways incomplete.	3	Address explosive hazards.
Lakes MRS	Exposure pathways complete.	Exposure pathways incomplete.	4	Address explosive hazards.
Lake Denmark - Off-Post	Exposure pathways incomplete.	Exposure pathways incomplete.	No Known or Suspected MEC, CWM, or MC Hazard	Assess No Further Action Alternative.
Inactive Munitions Waste Pit	Exposure pathways complete.	Exposure pathways incomplete.	4	Address explosive hazards.
Inactive Munitions Waste Pit - Off-Post	Exposure pathways incomplete.	Exposure pathways incomplete.	No Known or Suspected MEC, CWM, or MC Hazard	Assess No Further Action Alternative.



Update On Final Non-time Critical Removal Action Interim Land Use Control Plan

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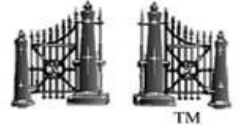
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- In 2010, for number of Army installations, established Land Use Controls (LUCs) as an interim action while the MRSs progress to a final remedy within the framework of CERCLA. MRS not located on Army-owned land would not be addressed.
- Approved Engineering Evaluation/Cost Analysis public noticed **Nov-Dec 2011.**
- The *Action Memorandum, Interim Land Use Controls, Picatinny Arsenal for 1926 Explosion Radius (PICA-003-R-01), Green Pond Site (PICA-005-R-01), Former Operational Areas (PICA-006-R-01), Lakes Sites (PICA-008-R-01), Shell Burial Grounds (PICA-010-R-01), and Inactive Munitions Waste Pit (PICA-013-R-01), Military Munitions Response Program (Action Memorandum or AM)* signed by the installation's Garrison Commander on **3 April 2012.**
- *Land Use Control Plan* approved and final in **January 2013.**



LUC Components

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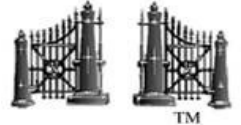
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- Continued Existing Controls – via Safety Office
- “Dig” Permits via Safety Office
- Notations in Master Plan and on GIS layer
- Fences as necessary: Fences not installed around Lake Denmark based on findings from RI
- Signs put around Fuze Area based on RI Findings.



Construction Support and Avoidance Since LUCWP

US Army Garrison



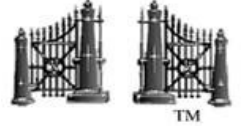
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- Chugach with subcontractor (smaller projects):
Gas line, B462, B162 B221 Electric, 900 area pole installation, B717 Conex containers, B477 Install Hydrant , EOD pond Schrader Rd signs, B1 sink hole, B404 catch basin, B455 Utility Poles, ,SREC B403, B162 Bollards and signs, 3022,3024 footings, B3106 Utility trench, UXO support for the demolition of B437, B183 sidewalk, B1 Signs, B404 head wall, B3100 boiler, pad B354 Sign, B3338 Drain, Range 656 well, UXO support B462, B3359 Utility Poles, 600 Area access control Install signs, B74 Remove Guard Shack , B321 Waterline, B151 Silt fence cable bridge, B266 Air handler, replace pole Belt Rd , B176 Excavation, ,Escort 1000 Area, utility pole B903, B151 Installation of Gun Pad, B3208 Electric Line, B717 SREC Pole, Install B200 Parking Lot at Fuel Station....and many more.
- Corps with PIKA:
900 bunker construction support



...and for the future

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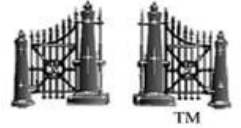
Picatinny Arsenal

- Non-Time Critical Removal Action ends at ROD for each site
- Major Construction at Picatinny very limited in near future
- Update GIS and Master Plan



Programmatic Developments

US Army Garrison



Picatinny Arsenal

- **2014 Installation Action Plan (IAP) is now being updated**
2013 IAP has been on Picatinny Web page.
- **Defense State Memorandum of Agreement JEP 2- Year Workplan is approved**
 - **This is how the New Jersey is paid to review and provide oversight consistent with CERLCA.**
- **A Major Performance-based contracting effort for next fiscal year**
 - **Replacement of current PBC contracts with LTM requirements**
 - **Take over ROD to Remedy that only went to ROD in Current PBC**
 - **MMRP development of Feasibility through ROD for all sites**
 - **Former Skeet Range, 600 Hill Groundwater, and PICA 111**